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STANFORD UNIVERSITY  
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AUG 20 1993

DEPARTMENT OF BIOLOGICAL SCIENCES

August 16, 1993

Dr. Joshua Lederberg  
2-11268-238  
The Rockefeller University  
1230 York Avenue  
NEW YORK NY 10021-6399

Dear Josh,

Thank you for your nice note and the reprints.

Your foraging in old stabs reminds me of Alan Richter who maintained that old stabs were an excellent source of interesting mutants. Does this activity mean that you are investigating stationary phase mutagenesis (aka Cairnsian mutagenesis)? There was recently a postdoc here studying this phenomenon, which reminded me of our early forays into the Hinshelwood effect and d-arabinose utilization.

Enclosed is my only copy of my dissertation. I assume there is another one in the Genetics Dept. library if I needed it for anything. Considering the frequency with which I have referred to this in the past decade it probably makes more sense for you to have it than me.

I believe that Table 1 of the dissertation should answer your questions about strain numbers and lac designations. The lac numbers should be the same as the mutation numbers in the stock book. W4001 should be the original *lac-41* mutant of W3787. The corresponding F<sup>-</sup> should be W 4101. Lac numbers in the 1-39 range were used for mutants that existed when I started the project. There were 3 "lac-1" mutants which I renumbered lac-11, 12 and 13, respectively (see Table 1A).

W4991 is the Hfr that carries *lac*-39, and W4680 is the F<sup>-</sup> derivative (listed in the middle of Table 1A). The double mutations (i.e. stable derivatives of mutable *lac*<sup>-</sup> mutants) are listed at the end of Table 1A.

If you acquire information about the intragenic location of some of the old mutations I would appreciate your passing it along to me. On page 148 in *The Lactose Operon*, Fig. 5 shows the location of the deletion (*lac*-39) in W4680. It also attributes A238 to our Genetics article, but I currently can't figure out what that corresponds to in my numbering system.

A cursory look through some of the old stabs I have indicates that some are *lac*<sup>-</sup> strains. You would be welcome to these if they seemed useful. I also have a copy of the old W-stock book, retrieved from Gan's office when I cleaned it out.

As for reprints of the Genetics article, I still have a few, enough for my immediate needs, thank you.

I hope that you and your family are thriving.

Best regards ,

A handwritten signature in cursive script, reading "Ann Ganesan". The signature is written in dark ink and is positioned above the printed name.

Ann Ganesan